

(s) a compressed atomizing air supply tube mounted within the primary air tube, said compressed atomizing air supply tube being adapted to convey compressed air to the atomizing nozzle.

21. The burner assembly of claim **20** wherein the burner assembly is adapted to selectively fire on gaseous fuel, liquid fuel or both gaseous fuel and liquid fuel.

22. The burner assembly of claim **20** wherein the liquid fuel supply tube is adapted to convey gaseous fuel to produce a stabilizing gas base flame in the burner end.

23. The burner assembly of claim **20** wherein the swirl plate mounted around the periphery of the outlet end of the primary air tube is a slotted ring or a flapped ring.

24. The burner assembly of claim **20**, further including:

(t) a pilot assembly mounted at the burner end, said pilot assembly being adapted to produce a pilot flame.

25. The burner assembly of claim **24** wherein the pilot assembly is centrally located in the housing of the burner assembly and surrounds at least a portion of the atomizing nozzle.

26. The burner assembly of claim **1** further including an isolation shroud at the burner end.

27. The burner assembly of claim **26** wherein the isolation shroud is removably attached to the burner end.

28. The burner assembly of claim **26** wherein the isolation shroud is attached to the burner end by at least one suspension spoke.

29. The burner assembly of claim **26** wherein the isolation shroud surrounds and partially encloses the burner nose.

30. The burner assembly of claim **26** wherein the isolation shroud is adapted to be purged with a fluid.

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